FIG.1A

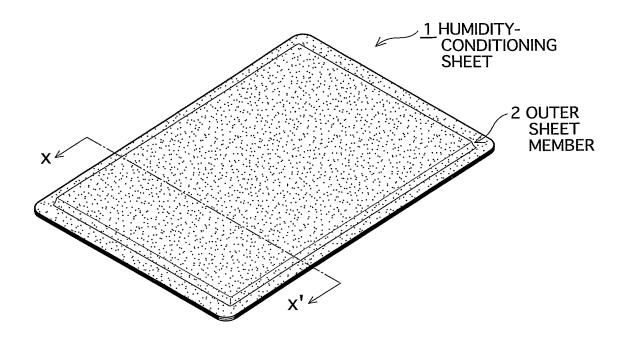
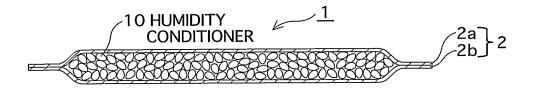
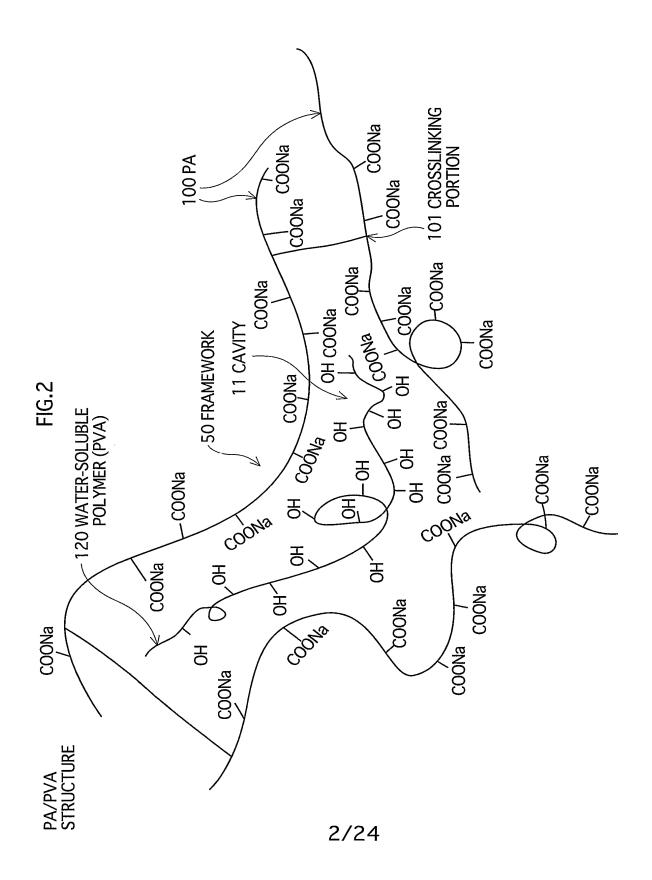


FIG.1B





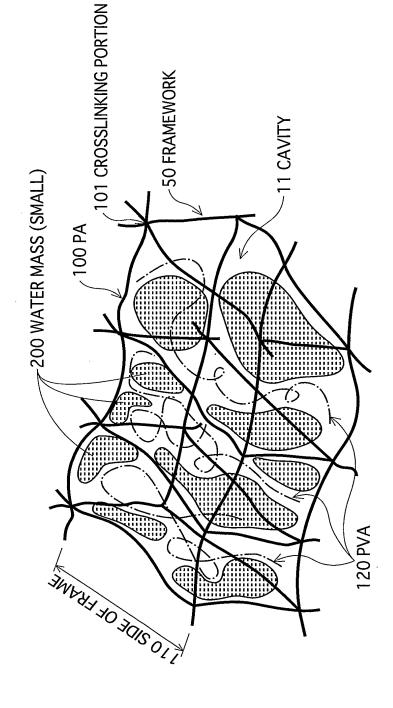
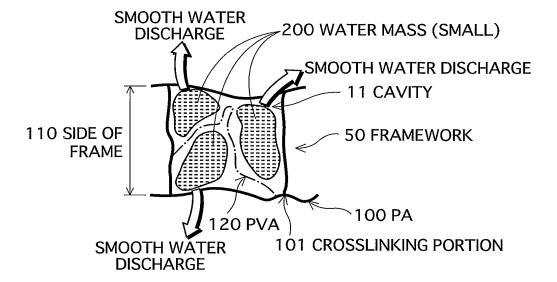


FIG.4



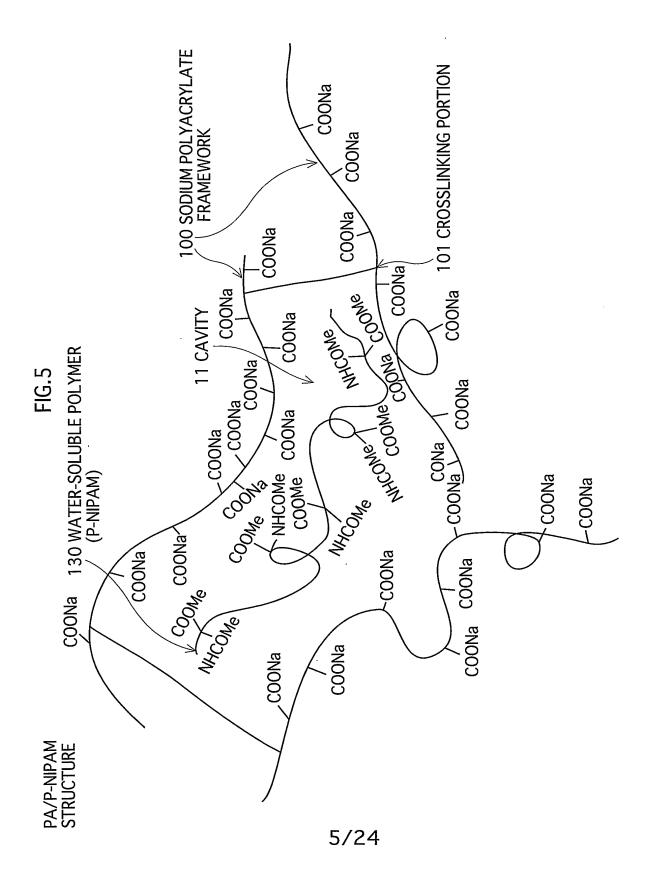
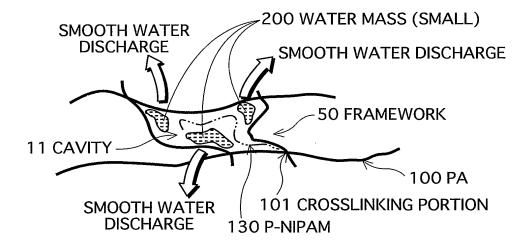


FIG.6



F1G.7

Changes in Weight (g) after Filtration

					可	apsed Tir	Elapsed Time (hour)	(
Sample	Tare Weight	0	13	52	62	14	98	92	110 134	134	159	183
А	55.5	96.76	92.36	92.36 87.43 79.19 76.19 71.89 68.78 66.04 60.86 56.25 55.61	79.19	76.19	71.89	68.78	66.04	60.86	56.25	55.61
В	56.01	56.01 94.78	90.2	90.2 84.82 75.55 72.43 69.14 65.9 63.59 59.98 56.8 56.14	75.55	72.43	69.14	62:3	63.59	59.98	26.8	56.14
С	55.82	55.82 94.82	89.39	89.39 84.27 74.58 71.72 67.92 64.84 62.38 59.18 55.97	74.58	71.72	67.92	64.84	62.38	59.18	55.97	55.95
D	56.0	96.21	91.57	91.57 86.14 75.69 72.7 69.25 65.26 62.76 59.29 56.14 56.12	75.69	72.7	69.25	65.26	62.76	59.29	56.14	56.12
Е	56.82	94.06	88.75	56.82 94.06 88.75 83.19 73.08 70.08 66.06 62.96 60.85 58.15 56.95 56.95	73.08	70.08	90.99	62.96	60.85	58.15	56.95	56.95

FIG.8

0.12 0.13 183 0.79 0.14 0.13 3.36 5.36 1.33 3.29 3.97 134 10.54 7.58 6.56 92.9 4.03 13.28 6.14 9.89 9.26 9.02 95 Elapsed Time (hour) 13.25 16.39 13.13 9.24 12.1 98 16.42 13.26 20.69 15.9 16.7 74 19.54 18.76 19.69 16.26 23.69 62 28.45 30.14 31.93 26.37 28.81 25 36.86 34.19 31.93 33.57 35.57 13 42.46 37.24 38.77 40.21 39.0 0 Sample \triangleleft $\mathbf{\omega}$ ш

Amount of Weight Change (g)

<u>ල</u>

Changes in Weight (g) after Filtration

			Elaps	Elapsed Time (hour)	our)		
Sample	Tare Weight	0	6	95	09	94	118
X	22.5	126.89	120.71	107.16	102.59	93.35	89.98
\	55.83	120.89	116.9	104.19	99.32	6.78	81.24

16.10

31.18

37.85 32.07

47.09

51.66 48.36

43.49

65.21

71.39 65.06

118

25.41

_	_	_	_	_
1	\cap		7	1
1	U	/	_	4

 $\times \mid \times$

<u>:1</u>6.11

Changes in Weight (g) after Filtration

Elapsed Time (hour) Tare Weight 0 56.82 59.73 56 60.37	Sample ×
---	----------

-16.12

 Amount of Weight Change (g)

 Sample
 Elapsed Time (hour)

 x
 2.91
 0.36

 y
 4.37
 0.74

-1G.13

Amount of Water Absorption after Drying Period of 35 Hours

L	Complo		Amount of	Amount of Water and Elapsed Time (hour)	ime (hour)	
13/	odinipie	Water added	Absorption condition	1-hour later	Additional water	Absorption condition
 24	×	10 mL	70% absorbed	95% absorbed	10 mL	No absorption
L	y	10 mL	100% absorbed	ı	10 mL	90% absorbed

-16.14

90% absorbed 1-hour later Amount of Water and Elapsed Time (hour) Amount of Water Absorption after Drying Period of 1 Week 20-30% absorbed 20-min later Water added 10 mL Sample

95% absorbed

80% absorbed

10 mL

>

FIG. 15

Amount of Water Absorption after Drying Period of 1 Month

Samule	Amount	Amount of Water and Elapsed Time (hour)	ле (hour)
	Water added	20-min later	30-min later
×	5 mL	50% absorbed	nearly 100% absorbed
χ	5 mL	80% absorbed	95% absorbed

FIG. 16

Changes in Weight (g) after Filtration

				T posue!	Flancad Time (hour)			
			_	lapsed 11	ilic (Ilbali)			
` ≤	Tare Weight	0	18	19	50	21	69	06
",	52.92		56.12	56.07	56.12 56.07 55.97	55.87		53.65
٦,	54.32	57.06					55.1	
- ′	52.76		54.56	54.5	54.56 54.5 54.43	54.37		53.55
" ′	54.24	56.25					54.72	
	53.1		54.05	53.99	53.93	53.87		53.56
" /	53.56		57.8	57.7	57.8 57.7 57.47	57.24		54.93

FIG. 17

Amount of Weight Change (g)

		06	0.73		0.79		0.46	1.37
		69		0.78		0.48		
hour	(IDOI	21	2.95		1.61		0.77	3.68
Flansed Time (hour)	י אוווי אי	20	3.05		1.67		0.83	3.91
Flans	od pi	19	3.15		1.74		0.89	4.14
		18	3.2		1.8		0.95	4.24
		0		2.74		2.01		
	Sample	Callipic	Ø	q	ပ	ر ، ک	p	e)

FIG. 18

Amount of Water Absorption after Dried

				Elapsed ⁻	Elapsed Time (hour)	(Jr				
Sample	20-min after 5 mL water added	Immediately after water absorption	1	2	3	4	2	9	24	42
а	70% absorbed	57.5	57.32	57.21	57.07	56.94	56.86	56.78	55.04	53.83
q	70% absorbed	58.41	58.26	58.18	58.08	57.93	57.83	57.74	12.95	52.05
C	50% absorbed	26.65	56.47	56.4	56.29	56.15	56.07	55.98	54.34	53.48
c,	70% absorbed	63.73	63.52	63.38	63.18	62.95	62.77	62.57	62'69	56.75
p	60% absorbed	57.43	57.24	57.12	57.01	26.88	56.79	56.68	55.05	53.64
е	70% absorbed	59.04	58.87	58.65	58.46	58.28	58.14	58.03	55.91	54.73

<u>:1G.19</u>

Amount of Weight Change (g)

Sample		Elapsed Time (hour)	me (hour)	
)	0	9	24	42
	4.58	3.86	2.12	0.91
	4.09	3,42	1.89	0.73
	3.89	3.22	1.58	0.72
	9.49	8,33	5.55	2.51
	4.33	3.58	1.95	0.54
	5.48	4,47	2.35	1.17

FIG.20

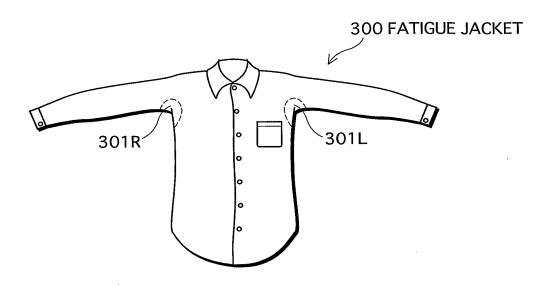
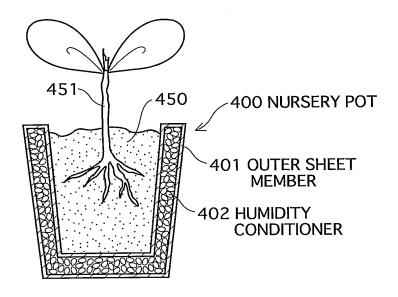


FIG.21



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FIG.22

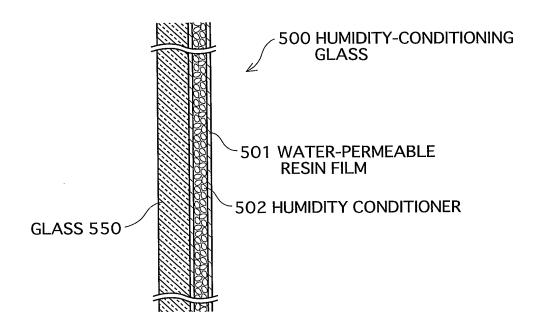


FIG.23

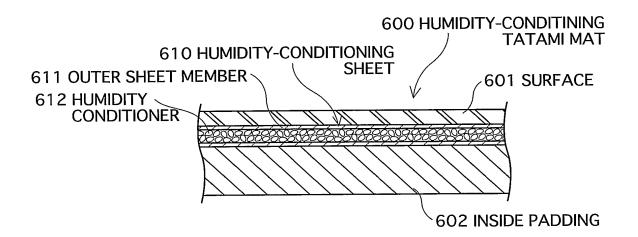


FIG.24A

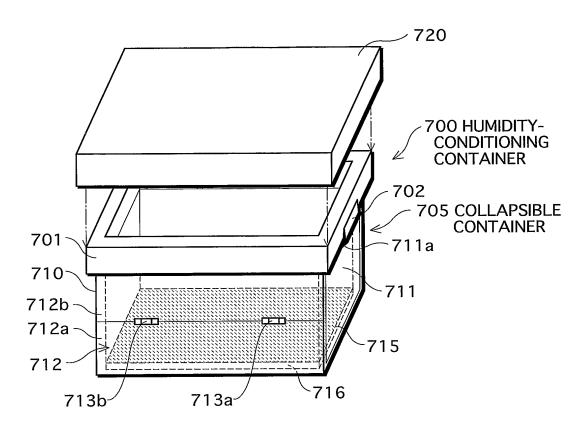
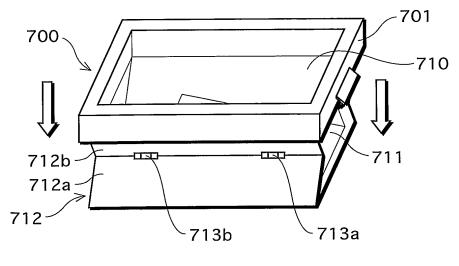


FIG.24B



22/24



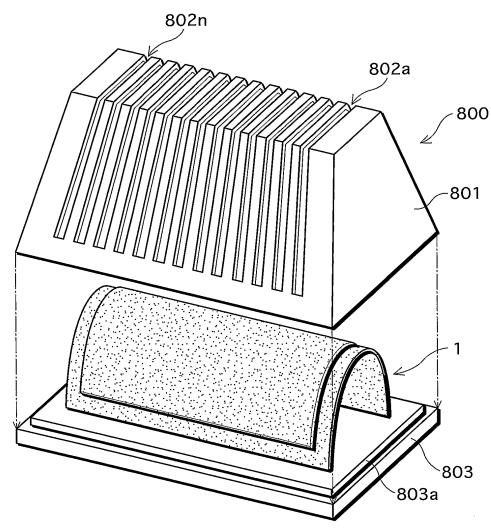


FIG.25B

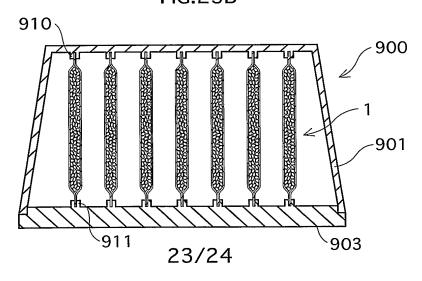


FIG.26A

STRUCTURE OF CONVENTIONAL ABSORBENT MATERIAL

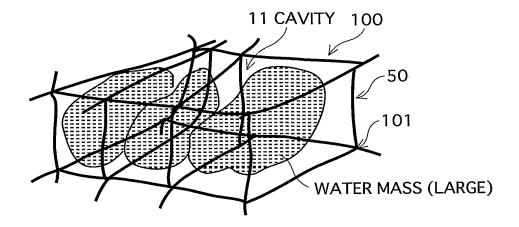


FIG.26B

DIFFICULT TO DISCHARGE WATER

